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INDUSTRIAL USE PERMIT REQUIREMENTS

WASTEWATER STREAMS AUTHORIZED FOR DISCHARGE

WASTEWATER STREAM	APPROXIMATE FLOW(GPD)	YES	NO
A. Sanitary	17,000	x	
B. Boiler Blowdown			
C. Treated Process Wastewater	72,000	x	
D. Cooling Water			
E. Other			
F. Other			

PART 1 - WASTEWATER DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

A. LOCALLY DERIVED LIMITATIONS

The industrial user shall comply with the following locally derived effluent limitations effective as of: September 1, 2015

MONITORING LOCATION: Sampling Manhole near Guard Gate

SAMPLE TYPE: 24 Composite for all parameters except pH and SGT-HEM which will be grabs

PARAMETERS	SAMPLE FREQUENCY	LIMIT	PURPOSE
pH	Monthly	5.0-9.5 SU	Compliance
SGT-HEM	"	100 ppm	"
Cyanide	"	1.1 mg/l	"
Biochemical Oxygen Demand	"	250 mg/l	Surcharge
Total Suspended Solids	"	"	"
Total Phosphorus	"	6.0 mg/l	"
Chemical Oxygen Demand	"	-------	Monitor Only
Total Mercury	"	0.001 mg/l	Compliance
Total Arsenic	Every Six Months	0.5 mg/l	Compliance[1]
Total Selenium	" " "	-------	"
Priority Pollutant Semivolatiles	" " "	-------	"

SPDES PERMIT REQUIREMENTS

FINAL PERMIT LIMITS, LEVELS AND MONITORING

OUTFALL No.	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
001	Non-contact cooling, boiler blowdown and stormwater runoff	Niagara River (A-Special)	EDM	ExDP

PARAMETER	MINIMUM	MAXIMUM	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FOOTNOTES (FN)
pH	6.0	9.0	SU	2 / month	Grab	

PARAMETER	COMPLIANCE LIMIT		MONITORING ACTION LEVEL		UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Daily Avg.	Daily Max.	TYPE I	TYPE II				
Flow	Monitor	Monitor			GPD	Continuous	Recorder	
Solids, Total Suspended, (Net)	Monitor	50			mg/l	Monthly	24-hr. Comp.	1, 2
Oil & Grease, (Net)	Monitor	15.0			mg/l	Monthly	Grab	1,2
Settleable Solids	Monitor	0.1			ml/l	Monthly	Grab	2
Temperature	Monitor	102			°F	Monthly	Grab	2
Ammonia (as N)			1.5		mg/l	Semi-annual	24-hr Comp.	
Ammonia (as N)			monitor		lb/day	Semi-annual	Calculated	
Cyanide, Total			0.03		mg/l	Semi-annual	24-hr Comp.	
Cyanide, Total			monitor		lb/day	Semi-annual	Calculated	
Phenols (4AAP), (Net)			0.08		mg/l	Semi-annual	24-hr Comp.	1
Phenols (4AAP), (Net)			monitor		lb/day	Semi-annual	Calculated	1
Benzene			0.0015		mg/l	Semi-annual	Grab	
Benzene			monitor		lb/day	Semi-annual	Calculated	
Benzo(a)pyrene			0.002		mg/l	Semi-annual	24-hr Comp	
Benzo(a)pyrene			monitor		lb/day	Semi-annual	Calculated	
Naphthalene			0.003		mg/l	Semi-annual	24-hr Comp.	
Naphthalene			monitor		lb/day	Semi-annual	Calculated	
Toluene			0.003		mg/l	Semi-annual	Grab	
Toluene			monitor		lb/day	Semi-annual	Calculated	
Fluoride			1.5		mg/l	Semi-annual	24-hr Comp.	
Surfactant			0.5		mg/l	Semi-annual	24-hr Comp.	

Footnotes
1. The permittee shall collect intake sample whenever all Outfall 001 sample is taken and analyze the concentrations for those parameters qualifying for "Net."
2. Report average value if more than one sample analysis is performed during the month.

SPDES PERMIT REQUIREMENTS

OUTFALL No.	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
004	Combined flow for Outfalls (001 + 002 + 003)	Niagara River	EDM	EDP + 5 yrs.

PARAMETER	ENFORCEABLE LIMIT		MONITORING ACTION LEVEL		UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Monthly Avg.	Daily Max.	TYPE I	TYPE II				
Flow (May 1 to Oct. 31)	Monitor	Monitor			MGD	Monthly	Calculated	
Temperature (May 1 to Oct. 31)	Monitor	Monitor			Degree F	2 / Month	Grab	

SPDES PERMIT REQUIREMENTS

FINAL PERMIT LIMITS, LEVELS AND MONITORING

OUTFALL No.	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
002	Coal Pile Runoff	Niagara River (A-Special)	EDM	ExDP

PARAMETER	MINIMUM	MAXIMUM	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FOOTNOTES (FN)
pH	6.0	9.0	SU	Monthly	Grab	

PARAMETER	COMPLIANCE LIMIT		MONITORING ACTION LEVEL		UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Daily Avg.	Daily Max.	TYPE I	TYPE II				
Flow		Monitor			GPD	Monthly	Instantaneous	
Solids, Total Suspended		50			mg/l	Monthly	Grab	
Oil & Grease		15			mg/l	Monthly	Grab	
Iron		4.0			mg/l	Monthly	Grab	
Cyanide			0.1		mg/l	Semi-annual	Grab	
Copper			0.2		mg/l	Semi-annual	Grab	
Nickel			0.5		mg/l	Semi-annual	Grab	
Zinc			0.5		mg/l	Semi-annual	Grab	
Surfactant			0.5		mg/l	Semi-annual	Grab	
Aluminum			1.0		mg/l	Semi-annual	Grab	
Manganese			1.0		mg/l	Semi-annual	Grab	

INDUSTRIAL USE PERMIT REQUIREMENTS

MONITORING LOCATION: Post Equalization Tank

COMBINED WASTESTREAM FORMULA APPLIES AT THIS LOCATION NO

CATEGORICAL PRETREATMENT LIMITS (PSES)

In accordance with the provisions of 40 CFR Paragraph 420.04(b), the permittee chooses to use the daily average production rate (based upon monthly production) for the highest of the previous 5 years. Under this option, the production number used in calculating limits is 462.9 tons/day. Documented monthly production rates for the last 5 years shall be provided to the Town by September 15th of each year and limits shall be adjusted to reflect any major changes in production.

PARAMETER	MONTHLY AVERAGE		DAILY MAXIMUM	
	(# / 1000 #)	(lbs/day)	(# / 1000 #)	(lbs/day)
Ammonia Nitrogen	.0200	(18.52)	.0333	(30.83)
Cyanide	.00506	(4.67)	.00724	(6.70)
Naphthalene	.0000392	(.036)	.0000472	(.044)

MONITORING AND REPORTING SCHEDULE

PARAMETER	SAMPLE FREQUENCY	SAMPLE TYPE	REPORTING FREQUENCY
Ammonia Nitrogen	Semi-annually	24 Hour Composite	January & July
Cyanide	Semi-annually	24 Hour Composite	January & July
Naphthalene	Semi-annually	24 Hour Composite	January & July

Flow must be reported for the sampling day in order to calculate the pounds per day.

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LEGEND

- WATER SAMPLE LOCATION (JULY 2016)
- DYE TEST LOCATION
- SANITARY MANHOLE (ACCESSIBLE)
- SANITARY MANHOLE (INACCESSIBLE OR NOT FOUND)
- IU SANITARY SAMPLE LOCATION
- AMMONIA STILL FLOOR DRAIN - PUMPED TO STILL
- IU POST EQ SAMPLE LOCATION (TO SANITARY SEWER)
- OPEN PIT (TO STORM SEWER)
- BOILER HOUSE OUTSIDE VAULT (TO STORM SEWER)
- SPDES OUTFALL
- OUTFALL-003 (ABANDONED)
- STORM WATER MANHOLE
- CATCH BASIN/DRAIN (TO STORM SEWER)
- EXCESS COOLING WATER DISCHARGE (TO STORM SEWER)
- SUMP (TO STORM SEWER)
- METAL STICK-UP PIPE (UNKNOWN SOURCE)
- APPROXIMATE SANITARY SEWER (BASED ON CRA REPORT, 2010)
- APPROXIMATE SANITARY SEWER (BASED ON HISTORIC FACILITY DRAWINGS)
- STORM SEWER STRUCTURE

STORM DRAINAGE/SEWER

- CONCRETE BOX CULVERT
- STORM CULVERT
- BREEZE FIELD STORM PIPE
- STORM PIPE
- STORM PIPE (INFERRED)
- SURFACE DRAINAGE
- UNIDENTIFIED PIPE (TO STORM)

PROCESS WASTEWATER LINES[1]

- EXCESS LIQUOR FROM SURGE TANK TO STORAGE TANKS
- FLOW FROM STORAGE TANK TO AMMONIA STILL FOR TREATMENT
- FLOW FROM AMMONIA STILL TO AC PUMP THEN TO EQ TANK
- DISCHARGE FROM EQ TANK TO SANITARY SEWER (LINE DASHED - APPROXIMATED UNDERGROUND LCOATION)

NOTES:
1. PROCESS WASTEWATER LINES ARE GENERALIZED FOR THE PURPOSE OF DISPLAYING CONVEYANCE ACROSS THE SITE.

TONAWANDA COKE CORP.
CLEAN WATER ACT
COMPLIANCE AUDIT
TONAWANDA, NEW YORK

STORM & WASTEWATER CONVEYANCE & DISCHARGE LIMITS

0 60 120 240
Feet

FILE NO. 25489.62791
DATE: OCTOBER 2016

O'BRIEN & GERE ENGINEERS, INC.

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